		Pushing the E	nvelope
		2008 Mathem	natics
		Learning Star	ndards
Washington Mathem	natics		
Grade 5			
Activity/Lesson	State	Standards	
			Write algebraic expressions that represent
Types of Engines (simple situations and evaluate the expressions,
pgs. 11-23)	WA	MA.5.5.4.C	using substitution when variables are involved.
, ,			Write algebraic expressions that represent
Chemistry (pgs. 25-			simple situations and evaluate the expressions,
41)	WA	MA.5.5.4.C	using substitution when variables are involved.
Physics and Math			Write a rule to describe the relationship between
(pgs. 43-63)	WA	MA.5.5.4.B	two sets of data that are linearly related.
			Write algebraic expressions that represent
Physics and Math			simple situations and evaluate the expressions,
(pgs. 43-63)	WA	MA.5.5.4.C	using substitution when variables are involved.
		Pushing the Er	
		2008 Mathen	natics
		Learning Star	ndards
Washington Mathem	natics		
Grade 6			
Activity/Lesson	State	Standards	
			Students are expected to: Write a mathematical
			expression or equation with variables to
Physics and Math			represent information in a table or given
(pgs. 43-63)	WA	MA.6.6.2.A	situation.
			Students are expected to: Evaluate
Physics and Math			mathematical expressions when the value for
(pgs. 43-63)	WA	MA.6.6.2.C	each variable is given.
			Students are expected to: Identify and write
Physics and Math			ratios as comparisons of part-to-part and part-to-
(pgs. 43-63)	WA	MA.6.6.3.A	whole relationships.
Physics and Math			Students are expected to: Write ratios to
(pgs. 43-63)	WA	MA.6.6.3.B	represent a variety of rates.
5			Students are expected to: Identify the ratio of
			the circumference to the diameter of a circle as
Physics and Math			the constant pi, and recognize 22/7 and 3.14 as
(pgs. 43-63)	WA	MA.6.6.3.E	common approximations of pi.
, ,			Students are expected to: Solve single- and
Physics and Math			multi-step word problems involving ratios, rates,
(pgs. 43-63)	WA	MA.6.6.3.D	and percents, and verify the solutions.
,			
	-	Pushing the Er	
		2008 Mathen	
		Learning Star	ndards
Washington Mathem	natics		
Grade 7			
Activity/Lesson	State	Standards	

Physics and Math			Students are expected to: Solve single- and multi-step problems involving proportional
(pgs. 43-63)	WA	MA.7.7.2.B	relationships and verify the solutions.
			<u> </u>
		Pushing the Engage 2008 Mathematical Pushing The Pushi	
		Learning Stand	
Washington Mathen	natice	Learning Stand	
Grade 8	latios		
Activity/Lesson	State	Standards	
			Students are expected to: Represent a linear
			function with a verbal description, table, graph,
Physics and Math			or symbolic expression, and make connections
(pgs. 43-63)	WA	MA.8.8.1.C	among these representations.
		Pushing the En	velope
		2008 Mathema	
		Learning Stand	dards
Washington Mathen			
Grades 9-12 (Algebi			
Activity/Lesson	State	Standards	
Types of Engines (Students are expected to: Evaluate f(x) at a (i.e.,
pgs. 11-23)	WA	ΜΔ 9-12 Δ1 3 (C f(a)) and solve for x in the equation f(x) = b.
pgs. 11-20)	VVA	W/A.5-12./X1.5.C	
Chemistry (pgs. 25-			Students are expected to: Evaluate f(x) at a (i.e.,
41)	WA	MA.9-12.A1.3.0	f(a) and solve for x in the equation $f(x) = b$.
			Students are expected to: Recognize the
			multiple uses of variables, determine all possible
DI : 184 (I			values of variables that satisfy prescribed
Physics and Math	10/0	NAA O 40 A4 O F	conditions, and evaluate algebraic expressions
(pgs. 43-63)	WA	MA.9-12.A1.2.E	
			Students are expected to: Represent a function with a symbolic expression, as a graph, in a
Physics and Math			table, and using words, and make connections
(pgs. 43-63)	WA	MA.9-12.A1.3.E	
(pgc. 10 00)		100 120 11012	among those representations.
Physics and Math			Students are expected to: Evaluate f(x) at a (i.e.,
(pgs. 43-63)	WA	MA.9-12.A1.3.0	f(a) and solve for x in the equation $f(x) = b$.
Physics and Math			Students are expected to: Write and solve linear
(pgs. 43-63)	WA	MA.9-12.A1.4.A	
Dhysics and Math			Students are expected to: Write and solve
Physics and Math	WA	MA.9-12.A1.4.	systems of two linear equations and inequalities in two variables.
(pgs. 43-63)	VVA	IVIM.9-12.A1.4.L	Students are expected to: Describe how
			changes in the parameters of linear functions
			and functions containing an absolute value of a
Physics and Math			linear expression affect their graphs and the
(pgs. 43-63)	WA	MA.9-12.A1.4.E	

Physics and Math			Students are expected to: Represent a quadratic function with a symbolic expression, as a graph, in a table, and with a description, and make
(pgs. 43-63)	WA	MA.9-12.A1.5.A	connections among the representations.
			Students are expected to: Express arithmetic
			and geometric sequences in both explicit and
			recursive forms, translate between the two
			forms, explain how rate of change is
Physics and Math			represented in each form, and use the forms to
(pgs. 43-63)	WA	MA.9-12.A1.7.C	find specific terms in the sequence.
			Students are expected to: Solve an equation
Physics and Math			involving several variables by expressing one
(pgs. 43-63)	WA	MA.9-12.A1.7.D	variable in terms of the others.